

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	44216	search\$3 with imag\$3 and ((common or similar or same) with imag\$4 with feature\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/14 15:59
L2	0	search\$3 with imag\$3 and (commom with image with feature\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/14 15:57
L3	409	search\$3 with imag\$3 and (common with imag\$4 with feature\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/14 15:58
L4	1353	search\$3 with imag\$3 and ((common or similar or familiar) with imag\$4 with feature\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/14 15:59
L5	512	search\$3 with imag\$3 and ((common or similar or familiar) with imag\$4 with feature\$1) and (compar\$3 with imag\$4 with featur\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/14 16:00
L6	202	search\$3 with imag\$3 and ((common or similar or familiar) with imag\$4 with feature\$1) and (compar\$3 with imag\$4 near featur\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/14 16:00

EAST Search History

L7	202	search\$3 with imag\$3 and ((common or similar or familiar) with imag\$4 with feature\$1) and (compar\$3 with imag\$4 near featur\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/14 16:01
L8	67	search\$3 with imag\$3 and ((common or similar or familiar) with imag\$4 with feature\$1) and (compar\$3 with imag\$4 near featur\$3) and (key with image)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/14 16:01
L9	11	search\$3 with imag\$3 and ((common or similar or familiar) with imag\$4 with feature\$1) and (compar\$3 with imag\$4 near featur\$3) and (key near image\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/14 16:02
L10	1	("6381365").PN.	USPAT; USOCR	OR	OFF	2008/02/14 16:09
L11	1	("4,881,270").PN.	USPAT; USOCR	OR	OFF	2008/02/14 16:13
L12	7587	((707/1) or (707/3) or (707/5)). CCLS.	USPAT; USOCR	OR	OFF	2008/02/14 16:59
L13	0	L2 and L9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/02/14 16:59



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Sid-Ahmed Berrani, Laurent Amsaleg, Patrick Gros
November 2003 **CIKM '03**: Proceedings of the twelfth international conference on Information and knowledge management

Publisher: ACMFull text available: [pdf\(154.57 KB\)](#)
 Additional Information: [full citation](#), [abstract](#),
[references](#), [cited by](#), [index terms](#)

It is known that all multi-dimensional index structures fail to accelerate content-based similarity searches when the feature vectors describing images are high-dimensional. It is possible to circumvent this problem by relying on approximate search-schemes ...

Keywords: approximate nearest-neighbor searches, multimedia databases, similarity searches

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2 [Efficient summarization-aware search for online news articles](#)

Wisam Dakka, Luis Gravano
June 2007 **JCDL '07**: Proceedings of the 2007 conference on Digital libraries
Publisher: ACM

Full text available: [pdf\(8.13 MB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#),
[index terms](#)

News portals gather and organize news articles published daily on the Internet. Typically, news articles are clustered into 'events' and each cluster is displayed with a short description of its contents. A particularly interesting choice for describing ...

Keywords: clustering, summarization, summarization-aware search

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3 [Visual feature extraction via eye tracking for saliency driven 2D/3D registration](#)

Adrian James Chung, Fani Deligianni, Xiao-Peng Hu, Guang-Zhong Yang
March 2004 **ETRA '04**: Proceedings of the 2004 symposium on Eye tracking research & applications
Publisher: ACM

Full text available: [pdf\(3.03 MB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#),
[index terms](#)

This paper presents a new technique for extracting visual saliency from

experimental eye tracking data. An eye-tracking system is employed to determine which features that a group of human observers considered to be salient when viewing a set of video ...


Keywords: 2D/3D registration, eye tracking, image correlation, saliency

4 Personalization of search engine services for effective retrieval and knowledge management

Weiguo Fan, Michael D. Gordon, Praveen Pathak

December 2000 **ICIS '00**: Proceedings of the twenty first international conference on Information systems

Publisher: Association for Information Systems

Full text available:  pdf(174.07 KB) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)



5 Image upsampling via imposed edge statistics



Raanan Fattal

July 2007 **ACM Transactions on Graphics (TOG)**, Volume 26 Issue 3

Publisher: ACM

Full text available:  pdf(5.31 MB)  mov(24:28 MIN) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we propose a new method for upsampling images which is capable of generating sharp edges with reduced input-resolution grid-related artifacts. The method is based on a statistical edge dependency relating certain edge features of two different ...

Keywords: Markov random field image modeling, image enhancement, image interpolation, super-resolution


6 Three-level caching for efficient query processing in large Web search engines



Xiaohui Long, Torsten Suel

May 2005 **WWW '05**: Proceedings of the 14th international conference on World Wide Web

Publisher: ACM

Full text available:  pdf(243.61 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Large web search engines have to answer thousands of queries per second with interactive response times. Due to the sizes of the data sets involved, often in the range of multiple terabytes, a single query may require the processing of hundreds of megabytes ...

Keywords: Web search, caching, inverted index

7 A novel log-based relevance feedback technique in content-based image retrieval




Chu-Hong Hoi, Michael R. Lyu

October 2004 **MULTIMEDIA '04**: Proceedings of the 12th annual ACM

international conference on Multimedia

Publisher: ACM

Full text available:  pdf(228.62 KB) Additional Information: [full citation](#), [abstract](#),
[references](#), [cited by](#), [index terms](#)

Relevance feedback has been proposed as an important technique to boost the retrieval performance in content-based image retrieval (CBIR). However, since there exists a semantic gap between low-level features and high-level semantic concepts in CBIR, ...

Keywords: content-based image retrieval, relevance feedback, support vector machines, users logs

8 A Parallel Implementation of 4-Dimensional Haralick Texture Analysis for Disk-Resident Image Datasets

Brent Woods, Bradley Clymer, Joel Saltz, Tahsin Kurc

November 2004 **SC '04: Proceedings of the 2004 ACM/IEEE conference on Supercomputing**

Publisher: IEEE Computer Society

Full text available:  pdf(386.59 KB) Additional Information: [full citation](#), [abstract](#)


Texture analysis is one possible method to detect features in biomedical images. During texture analysis, texture related information is found by examining local variations in image brightness. 4-dimensional (4D) Haralick texture analysis is a method ...

9 Feature extraction by non parametric mutual information maximization

Kari Torkkola

March 2003 **The Journal of Machine Learning Research**, Volume 3

Publisher: MIT Press

Full text available:  pdf(357.19 KB) Additional Information: [full citation](#), [abstract](#), [cited by](#),
[index terms](#)

We present a method for learning discriminative feature transforms using as criterion the mutual information between class labels and transformed features. Instead of a commonly used mutual information measure based on Kullback-Leibler divergence, we ...

10 A search engine for 3D models



Thomas Funkhouser, Patrick Min, Michael Kazhdan, Joyce Chen, Alex Halderman, David Dobkin, David Jacobs

January 2003 **ACM Transactions on Graphics (TOG)**, Volume 22 Issue 1

Publisher: ACM

Full text available:  pdf(7.91 MB) Additional Information: [full citation](#), [abstract](#), [references](#),
[cited by](#), [index terms](#)

As the number of 3D models available on the Web grows, there is an increasing need for a search engine to help people find them. Unfortunately, traditional text-based search techniques are not always effective for 3D data. In this article, we investigate ...

Keywords: Search engine, shape matching, shape representation, shape retrieval

11 Generating fuzzy semantic metadata describing spatial relations from images using the R-histogram



Yuhang Wang, Fillia Makedon, James Ford, Li Shen, Dina Goldin

June 2004 **JCDL '04**: Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries

Publisher: ACM

Full text available: pdf(193.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Automatic generation of semantic metadata describing spatial relations is highly desirable for image digital libraries. Relative spatial relations between objects in an image convey important information about the image. Because the perception of spatial ...

Keywords: *k*-nearest neighbor rule, image digital library, metadata, prototype selection, r-histogram, spatial relations

12 A new framework to combine descriptors for content-based image retrieval



Ricardo da S. Torres, Alexandre X. Falcão, Baoping Zhang, Weiguo Fan, Edward A. Fox, Marcos André Gonçalves, Pavel Calado

October 2005 **CIKM '05**: Proceedings of the 14th ACM international conference on Information and knowledge management

Publisher: ACM

Full text available: pdf(95.35 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we propose a novel framework using *Genetic Programming* to combine image database descriptors for content-based image retrieval (CBIR). Our framework is validated through several experiments involving two image databases and specific ...

Keywords: content-based image retrieval, genetic programming

13 A blob detector in color images



Anlong Ming, Huadong Ma

July 2007 **CIVR '07**: Proceedings of the 6th ACM international conference on Image and video retrieval

Publisher: ACM

Full text available: pdf(1.01 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we propose a novel and efficient framework for the extension of multi-scale blob detection for the color domain to prevent information loss due to gray scale transformation and to allow us to exploit the photometric information. The framework ...

Keywords: blob, color, stamp image


14 Layout indexing of trademark images



Reinier H. van Leuken, M. Fatih Demirci, Victoria J. Hodge, Jim Austin, Remco C. Veltkamp

July 2007 **CIVR '07**: Proceedings of the 6th ACM international conference on Image and video retrieval

Publisher: ACM

Full text available:  pdf(461.49 KB) Additional Information: [full citation](#), [abstract](#),
[references](#), [index terms](#)

Ensuring the uniqueness of trademark images and protecting their identities are the most important objectives for the trademark registration process. To prevent trademark infringement, each new trademark must be compared to a database of existing trademarks. ...

Keywords: Laplacian spectrum, content-based image retrieval, indexing, trademark retrieval

15 Exploring composite acoustic features for efficient music similarity



query

Bin Cui, Jialie Shen, Gao Cong, Heng Tao Shen, Cui Yu
October 2006 **MULTIMEDIA '06**: Proceedings of the 14th annual ACM
international conference on Multimedia

Publisher: ACM

Full text available:  pdf(191.75 KB) Additional Information: [full citation](#), [abstract](#),
[references](#), [index terms](#)

Music similarity query based on acoustic content is becoming important with the ever-increasing growth of the music information from emerging applications such as digital libraries and WWW. However, relative techniques are still in their infancy and ...

Keywords: CF-tree, KNN, music, similarity query

16 Image domain formalization for content-based image retrieval



Caetano Traina, Josiel M. Figueiredo, Agma J. M. Traina
March 2005 **SAC '05**: Proceedings of the 2005 ACM symposium on Applied
computing

Publisher: ACM

Full text available:  pdf(247.52 KB) Additional Information: [full citation](#), [abstract](#),
[references](#), [index terms](#)

This paper proposes a formal representation of the operations required to perform content-based image retrieval (CBIR) in large relational databases, using similarity queries. In this paper, we consider similarity as a numerical value obtained comparing ...

Keywords: content-based image retrieval, query algebra, relational databases, similarity queries

17 Clustering and searching WWW images using link and page layout



analysis

Xiaofei He, Deng Cai, Ji-Rong Wen, Wei-Ying Ma, Hong-Jiang Zhang
May 2007 **ACM Transactions on Multimedia Computing,
Communications, and Applications (TOMCCAP)**, Volume 3 Issue
2

Publisher: ACM

Full text available:  pdf(28.98 MB) Additional Information: [full citation](#), [abstract](#),
[references](#), [index terms](#)

Due to the rapid growth of the number of digital images on the Web, there is an increasing demand for an effective and efficient method for organizing and retrieving the available images. This article describes iFind, a system for clustering and searching ...

Keywords: Web mining, image clustering, image search, link analysis

18 Eye/gaze tracking in web, image and video documents



Djeraba Chabane, Stanislas Lew, Dan Simovici, Sylvain Mongy, Nacim Ihaddadene

October 2006 **MULTIMEDIA '06**: Proceedings of the 14th annual ACM international conference on Multimedia

Publisher: ACM

Full text available: pdf(190.91 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Our demo focuses on eye tracking on web, image and video data. We use some state-of-the-art measurements, such as scan path, to determine how the user sees web documents, images and videos. Our approach is characterised by automatic eye/gaze tracking ...

Keywords: documents, eye/gaze, eyepath, heartbeat, images, respiration, stress, tracking, videos, web

19 Can we trust digital image forensics?



Thomas Gloe, Matthias Kirchner, Antje Winkler, Rainer Böhme

September 2007 **MULTIMEDIA '07**: Proceedings of the 15th international conference on Multimedia

Publisher: ACM

Full text available: pdf(928.00 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Compared to the prominent role digital images play in nowadays multimedia society, research in the field of image authenticity is still in its infancy. Only recently, research on digital image forensics has gained attention by addressing tamper detection ...

Keywords: digital image forensics, image source identification, tamper detection, tamper hiding

20 Visualizing changes in the structure of data for exploratory feature selection



Elias Pampalk, Werner Goebel, Gerhard Widmer

August 2003 **KDD '03**: Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining

Publisher: ACM

Full text available: pdf(642.44 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Using visualization techniques to explore and understand high-dimensional data is an efficient way to combine human intelligence with the immense brute force computation power available nowadays. Several visualization techniques have been developed to ...

Keywords: high-dimensional data, interactive data mining

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1 [Approximate searches: k-neighbors + precision](#)

Sid-Ahmed Berrani, Laurent Amsaleg, Patrick Gros
November 2003 **CIKM '03**: Proceedings of the twelfth international conference on Information and knowledge management

Publisher: ACM

 Full text available: pdf(154.57 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

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Keywords: approximate nearest-neighbor searches, multimedia databases, similarity searches

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2 [Coevolutionary feature synthesized EM algorithm for image retrieval](#)

Rui Li, Bir Bhanu, Anlei Dong
November 2005 **MULTIMEDIA '05**: Proceedings of the 13th annual ACM international conference on Multimedia

Publisher: ACM

 Full text available: pdf(709.14 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As a commonly used unsupervised learning algorithm in *Content-Based Image Retrieval* (CBIR), *Expectation-Maximization* (EM) algorithm has several limitations, especially in high dimensional feature spaces where the data are limited and the ...

Keywords: coevolutionary feature synthesis, content-based image retrieval, expectation maximization algorithm, genetic programming, semi-supervised learning

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3 [Does ontology help in image retrieval?: a comparison between keyword, text ontology and multi-modality ontology approaches](#)

Huan Wang, Song Liu, Liang-Tien Chia
October 2006 **MULTIMEDIA '06**: Proceedings of the 14th annual ACM international conference on Multimedia

Publisher: ACM

 Full text available: pdf(180.42 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
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[www.ExecQview.com](#)

Ontologies are effective for representing domain concepts and relations in a form of semantic network. Many efforts have been made to import ontology into information matchmaking and retrieval. This trend is further accelerated by the convergence of ...

4 Efficient summarization-aware search for online news articles



Wisam Dakka, Luis Gravano

June 2007 **JCDL '07**: Proceedings of the 2007 conference on Digital libraries

Publisher: ACM

Full text available: pdf(8.13 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

News portals gather and organize news articles published daily on the Internet. Typically, news articles are clustered into 'events' and each cluster is displayed with a short description of its contents. A particularly interesting choice for describing ...

Keywords: clustering, summarization, summarization-aware search

5 Visual feature extraction via eye tracking for saliency driven 2D/3D registration



Adrian James Chung, Fani Deligianni, Xiao-Peng Hu, Guang-Zhong Yang

March 2004 **ETRA '04**: Proceedings of the 2004 symposium on Eye tracking research & applications

Publisher: ACM

Full text available: pdf(3.03 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a new technique for extracting visual saliency from experimental eye tracking data. An eye-tracking system is employed to determine which features that a group of human observers considered to be salient when viewing a set of video ...

Keywords: 2D/3D registration, eye tracking, image correlation, saliency

6 Image-based 3D acquisition of archaeological heritage and applications



Marc Pollefeys, Luc Van Gool, Maarten Vergauwen, Kurt Cornelis, Frank

Verbiest, Jan Tops

November 2001 **VAST '01**: Proceedings of the 2001 conference on Virtual reality, archeology, and cultural heritage

Publisher: ACM

Full text available: pdf(1.13 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

In this paper an approach is presented that obtains virtual models from sequences of images. The system can deal with uncalibrated image sequences acquired with a hand-held camera. Based on tracked or matched features the relations between multiple views ...


Keywords: image-based modelling, large scale terrain modelling, site reconstruction, virtual archaeology

7 Personalization of search engine services for effective retrieval and knowledge management

Weiguo Fan, Michael D. Gordon, Praveen Pathak

December 2000 **ICIS '00**: Proceedings of the twenty first international conference on Information systems

Publisher: Association for Information Systems

Full text available:  pdf(174.07 KB) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

8 [Image upsampling via imposed edge statistics](#)





Raanan Fattal

July 2007 **ACM Transactions on Graphics (TOG)**, Volume 26 Issue 3

Publisher: ACM

Additional Information: [full citation](#),

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Xiaohui Long, Torsten Suel

May 2005 **WWW '05**: Proceedings of the 14th international conference on World Wide Web

Publisher: ACM

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Keywords: Web search, caching, inverted index


10 [Semantic knowledge extraction and annotation for web images](#)



Zhigang Hua, Xiang-Jun Wang, Qingshan Liu, Hanqing Lu

November 2005 **MULTIMEDIA '05**: Proceedings of the 13th annual ACM international conference on Multimedia

Publisher: ACM

Full text available:  pdf(269.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Nowadays, images have become widely available on the World Wide Web (WWW). It's essential to develop effective ways for managing and retrieving such abundant images. Advantageously, compared to the traditional images where very little information is ...

Keywords: image context, semantic image annotation, web image mining, web image retrieval

11 A novel log-based relevance feedback technique in content-based image retrieval



Chu-Hong Hoi, Michael R. Lyu

October 2004 **MULTIMEDIA '04**: Proceedings of the 12th annual ACM international conference on Multimedia

Publisher: ACM

Full text available: pdf(228.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

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Keywords: content-based image retrieval, relevance feedback, support vector machines, users logs

12 Content-Based TV Sports Video Retrieval Based on Audio-Visual Features and Text Information

Liu Huayong

September 2004 **WI '04**: Proceedings of the 2004 IEEE/WIC/ACM International Conference on Web Intelligence

Publisher: IEEE Computer Society

Full text available: pdf(121.17 KB) Publisher Site Additional Information: [full citation](#), [abstract](#)

In this paper, we propose content-based video retrieval, which is a kind of retrieval by its semantical contents. Because video data is composed of multimodal information streams such as visual, auditory and textual streams, we describe a strategy of ...

13 A Parallel Implementation of 4-Dimensional Haralick Texture Analysis for Disk-Resident Image Datasets

Brent Woods, Bradley Clymer, Joel Saltz, Tahsin Kurc

November 2004 **SC '04**: Proceedings of the 2004 ACM/IEEE conference on Supercomputing

Publisher: IEEE Computer Society

Full text available: pdf(386.59 KB) Additional Information: [full citation](#), [abstract](#)

Texture analysis is one possible method to detect features in biomedical images. During texture analysis, texture related information is found by examining local variations in image brightness. 4-dimensional (4D) Haralick texture analysis is a method ...

14 Feature extraction by non parametric mutual information maximization

Kari Torkkola


March 2003 **The Journal of Machine Learning Research**, Volume 3

Publisher: MIT Press

Full text available: pdf(357.19 KB) Additional Information: [full citation](#), [abstract](#), [cited by](#), [index terms](#)

We present a method for learning discriminative feature transforms using as criterion the mutual information between class labels and transformed features. Instead of a commonly used mutual information measure based on Kullback-Leibler divergence, we ...

15 Using thumbnails to search the Web

 Allison Woodruff, Andrew Faulring, Ruth Rosenholtz, Julie Morrision, Peter Pirolli
March 2001 **CHI '01**: Proceedings of the SIGCHI conference on Human factors
in computing systems

Publisher: ACM

Full text available:  pdf(424.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#),
[cited by](#), [index terms](#)


We introduce a technique for creating novel, textually-enhanced thumbnails of Web pages. These thumbnails combine the advantages of image thumbnails and text summaries to provide consistent performance on a variety of tasks. We conducted a study in which ...

Keywords: Web search task, thumbnails

16 Efficient keyword search over virtual XML views


Feng Shao, Lin Guo, Chavdar Botev, Anand Bhaskar, Muthiah Chettiar, Fan Yang, Jayavel Shanmugasundaram
September 2007 **VLDB '07**: Proceedings of the 33rd international conference on
Very large data bases

Publisher: VLDB Endowment


Full text available:  pdf(431.67 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Emerging applications such as personalized portals, enterprise search and web integration systems often require keyword search over semi-structured views. However, traditional information retrieval techniques are likely to be expensive in this context ...

17 Rapid design space exploration of heterogeneous embedded systems using symbolic search and multi-granular simulation

 S. Mohanty, V. K. Prasanna, S. Neema, J. Davis
July 2002 **ACM SIGPLAN Notices**, Volume 37 Issue 7


Publisher: ACM

Full text available:  pdf(356.42 KB) Additional Information: [full citation](#), [abstract](#), [references](#),
[cited by](#), [index terms](#)


In addition to integrating different Intellectual Property cores, heterogeneous embedded systems provide several architecture knobs such as voltage, operating frequency, configuration, etc. that can be varied to optimize performance. Such flexibilities ...

Keywords: binary decision diagram, design space, model integrated computing, modeling, multi-granular simulation, performance estimation, symbolic search

18 A search engine for 3D models

 Thomas Funkhouser, Patrick Min, Michael Kazhdan, Joyce Chen, Alex Halderman, David Dobkin, David Jacobs
January 2003 **ACM Transactions on Graphics (TOG)**, Volume 22 Issue 1

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Automatic generation of semantic metadata describing spatial relations is highly desirable for image digital libraries. Relative spatial relations between objects in an image convey important information about the image. Because the perception of spatial ...

Keywords: *k*-nearest neighbor rule, image digital library, metadata, prototype selection, r-histogram, spatial relations

20 A new framework to combine descriptors for content-based image retrieval



Ricardo da S. Torres, Alexandre X. Falcão, Baoping Zhang, Weiguo Fan, Edward A. Fox, Marcos André Gonçalves, Pavel Calado
October 2005 **CIKM '05**: Proceedings of the 14th ACM international conference on Information and knowledge management

Publisher: ACM

Full text available: pdf(95.35 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we propose a novel framework using *Genetic Programming* to combine image database descriptors for content-based image retrieval (CBIR). Our framework is validated through several experiments involving two image databases and specific ...

Keywords: content-based image retrieval, genetic programming

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Descriptors adjustment when using steerable pyramid to extract features for ...

US Pat. 6674915 - Filed Nov 15, 1999 - Sony Corporation

... using steerable pyramids to **extract image features** for content-based **search**.... Thus, when a **search** for similar **images** is conducted against a basis ...

Image processing apparatus for comparing images based on color feature ...

US Pat. 6519360 - Filed Sep 16, 1998 - Minolta Co., Ltd.

... file formats etc. and **search** information such as keywords, shape **features**,... it is effective to automatically **extract features** from the **images** and add ...

Distributed computer database system and method for performing object search

US Pat. 6463433 - Filed Mar 23, 2000 - Jarg Corporation

Each of the computer nodes,, 110 of the **search** engine may be of any of several types algorithms are also used to **extract features** from **images** and sound. ...

Fingerprint identification system

US Pat. 5659626 - Filed Oct 20, 1994 - Calspan Corporation

Automated systems, which have been in operation for over BACKGROUND OF THE

INVENTION 20 years, examine the **images and extract** and store the This invention ...

Fingerprint identification system

US Pat. 5926555 - Filed Apr 3, 1997 - Calspan Corporation

The first **search** compares a ten-print card to a file of ten-print cards. ...examine the **images and extract** and store the **features** that describe the ...

Method and system for using associative metadata

US Pat. 6353823 - Filed Mar 8, 1999 - Intel Corporation

7 is a flow chart illustrating the operation of the **search** module of FIG. ...For example, feature extractors operating on **images** may **extract** information ...

Distributed computer database system and method employing hypertext linkage ...

US Pat. 6505191 - Filed Jul 23, 1999 - Jarg Corporation

The computer nodes 107,, of the **search** engine may be of several types, ...filtering algorithms are also used to **extract features** from **images** and sound. ...

Fingerprint identification system

US Pat. 5799098 - Filed Apr 3, 1997 - Calspan Corporation

The included techniques for locating key **features** of a digitized fingerprint grayscale **images** from Scanner 20 may fingerprint, such as minutiae, ...

DCT-based motion estimation method

US Pat. 5790686 - Filed Sep 19, 1995 - University of Maryland at College Park

... in the preprocessing step to **extract features** of **images** as shown in FIG. ...Each reference block is associated with a larger **search** area (of size sa) ...

Method for indexing and retrieving manufacturing-specific digital imagery ...

US Pat. 6751343 - Filed Sep 20, 1999 - UT-Battelle, LLC

In particular, the user can select several **images** contained in the preliminary
... In step 14, image feature extraction module 2 can **extract** image **features** ...

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Patents 1 - 10 on **images and extract features and similarity sea**[Sort by relevance](#) | [Sort by date \(new first\)](#) | [Sort by date \(old first\)](#)Searching products catalogs

US Pat. 6728706 - Filed Mar 23, 2001 - International Business Machines Corporation

For example it may not be useful to select and **extract features** for **images** ...for determining the **similarity** between two products during the **search** phase. ...Image processing apparatus for comparing **images** based on color feature ...

US Pat. 6519360 - Filed Sep 16, 1998 - Minolta Co., Ltd.

At this time, a threshold value for judging the **similarity** is changed in accordance... It is possible to **extract** color **features** from **images** in a manner as ...Method of searching multimedia data

US Pat. 6704725 - Filed Jun 29, 2000 - LG Electronics Inc.

20 If there is user feedback, the **search** system obtains the **similarity** (or ...Therefore, the weights of **features** in **images** are more accurately and ...Method for image retrieval with multiple regions of interest .

US Pat. 6584221 - Filed Aug 30, 1999 - Mitsubishi Electric Research Laboratories, Inc.

We note that this formulation is an approximate spatial 60 **similarity** measure as... image to **extract** texture **features**, wherein the texture **features** include ...Descriptors adjustment when using steerable pyramid to **extract features** for ...

US Pat. 6674915 - Filed Nov 15, 1999 - Sony Corporation

... to **search** and retrieve information about **images** effectively and efficiently.**Images** are often retrieved from a database by **similarity** of image **features**. ...Distributed computer database system and method for performing object **search**

US Pat. 6463433 - Filed Mar 23, 2000 - Jarg Corporation

Features, such as the name of the photographer or date taken, ... For example,medical **images** typically use edge detection algorithms to **extract** the data ...Method and computer program product for subjective image content **similarity** ...

US Pat. 6345274 - Filed Jun 29, 1998 - Eastman Kodak Company

Given a content- based image representation scheme, image **similarity** is concerned... **images** I and J, each image is represented in terms of N **features**, F_i , ...Ultrasonic image searching apparatus and ultrasonic image transmission and ...

US Pat. 6488627 - Filed Jul 24, 2000 - Medison Co., Ltd.

The **similarity** calculator 18 compares the key word signal input from the ...**extract** the **features**. Besides, **features** can be extracted using signal ...Retrieval and matching of color patterns based on a predetermined vocabulary ...

US Pat. 6411953 - Filed Jan 25, 1999 - Lucent Technologies Inc.

... governing the use of these criteria in **similarity** judgment. The system utilizesthe vocabulary to **extract** perceptual **features** of patterns from **images** or ...Method and apparatus for computing the **similarity** between **images**

US Pat. 6718063 - Filed Dec 10, 1999 - Canon Kabushiki Kaisha

For each low- go level feature there are generally many ways of computing the

similarity between the features automatically extracted from two images. ...

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